



STUDY GUIDE

Postgraduate Diploma Course
in Geo-information Science and
Earth Observation

Academic year 2024-2025

University of Twente, Faculty ITC
Bureau Education and Research Support

UNIVERSITY OF TWENTE.



COLOFON

UNIVERSITY OF TWENTE
FACULTY OF GEO-INFORMATION SCIENCE AND EARTH OBSERVATION
Bureau Education and Research Support

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PREFACE

This study guide provides an overview of the Master's programme Geo-Information Science and Earth Observation starting September 2018 and the study units of the programme. In this study guide you find an overview of the learning outcomes and the structure of the programme as well as an overview of the various roles within the programme.

Each study unit of the study programme is described in terms of its study load, learning outcomes, contents, teaching and learning approach, test plan and entry requirements.

Through this study guide we hope to provide you insight in what you can expect from the education we offer. The programme manager can be contacted for further general information about the programme. For further information about a specific study unit, the coordinator of that study unit can be contacted.

Success with your studies!

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INTRODUCTION

SOURCES OF INFORMATION

STUDY GUIDE IN DIGITAL FORMAT

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FINAL ASSIGNMENT

FINAL ASSIGNMENT

Course	201900110
Period	21 April 2025 - 04 July 2025
EC	7
Course coordinator	drs. J.J. Verplanke

INTRODUCTION

The Final Assignment is an integral part of the Postgraduate Diploma course. The Final Assignment focuses on the application of knowledge, methods and techniques acquired throughout the course. The Final Assignment will be assessed individually, but part of the project could be performed in groups. The student can select a topic that is most relevant to their personal learning goals from a list of available topics. The student can also propose a topic and be allowed to execute it.

The assignment is designed to have a minimum individual study load of 7 EC. The output of the project will be a final report which will be assessed (presented, defended and discussed) in public.

CONTENT

The project should have a strong relationship with the contents of the courses followed in the first three quartiles of the year. The final assignment puts emphasis on the application of knowledge from the scientific discipline, the scientific approach used to address the geospatial problem and the temporal and social context of that geospatial problem.

TEACHING AND LEARNING APPROACH

The Final Assignment is 7 EC of individual work. A supervisor is assigned to provide feedback on the Final Assignment development.

The Final Assignment focuses on the application of knowledge, methods and techniques in the subject of the specialisation to the task performed or to the topic investigated. Depending on the specialisation, the Final Assignment is to be done individually or in small groups.

- 1) At the start of the Final Assignment, students receive terms of reference from supervising and coordinating staff.
- 2) Subsequently, students have to plan and carry out the Final Assignment according to the terms of reference.
- 3) Part of the output of the Final Assignment is a written report and a documented database.
- 4) The output of the Final Assignment is to be presented and discussed in public.

TESTS

The assessment is following the ITC assessment procedure, test plan and criteria for Final Assignments of the Postgraduate Diploma course. The individual assessment is based on the report of the Final Assignment and the presentation and defence in public.

The contents of the Final Assignment itself, i.e. scope and depth and methods, results and conclusions are the most important in the assessment of quality and mark. The quality of the presentation and defence and the process towards completing the assignment are used for further adjustment of the final mark.

ENTRY REQUIREMENTS

N/A

LEARNING OUTCOMES

Upon completion of this course, the student is able to:

- LO 1 Define, plan and execute a (small) project dealing with a practical application or technical development of GIS and/or RS tools to solve a problem encountered in the professional practice of the domain.
- LO 2 Independently apply methods and skills learnt in the course.
- LO 3 Prepare a concise technical report.
- LO 4 Orally present and discuss the work done.

ALLOCATED TIME PER TEACHING AND LEARNING METHOD

Teaching / learning method	Hours
Individual assignment	195
Written/oral test	1

TESTPLAN

Learning Outcomes that are addressed in the test		Final Assignment Exam
Learning outcomes (LO) of the course: The student will be able to...		
LO 1	Define, plan and execute a (small) project dealing with a practical application or technical development of GIS and/or RS tools to solve a problem encountered in the professional practice of the domain.	●
LO 2	Independently apply methods and skills learnt in the course.	●
LO 3	Prepare a concise technical report.	●
LO 4	Orally present and discuss the work done.	●
	Test type	Written report and public presentation and defence
	Weight of the test	100
	Individual or group test	Individual
	Type of marking	1-10
	Required minimum mark per test	
	Number of test opportunities per academic year	2

RELATION OF LEARNING OUTCOMES (LO) OF THE COURSE WITH THE PROGRAMME LEARNING OUTCOMES

Learning outcomes (LO) of the course: The student will be able to...								
LO 1	Define, plan and execute a (small) project dealing with a practical application or technical development of GIS and/or RS tools to solve a problem encountered in the professional practice of the domain.	●	●	●	●		●	
LO 2	Independently apply methods and skills learnt in the course.	●	●	●	●			
LO 3	Prepare a concise technical report.					●		●
LO 4	Orally present and discuss the work done.					●		●

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